

COURSE SYLLABUS

RIGGING FOR IRONWORKERS

Course Description:

This course is designed to provide the Iron Worker student with training in rigging using fiber line, wire rope and chains. The student will also perform reeving, rigging using slings, and specialized rigging, and will use miscellaneous rigging equipment, material handling power equipment, and be able to load and unload trucks.

Course Objective:

The objective of this course is to enable a student to select and use rigging.

Learning Outcomes:

Upon successful completion of this course, the student will be able to:

- Perform rigging using fiber line, wire rope and chains.
- Use rigging hardware, perform reeving, perform rigging using slings, and perform specialized rigging.
- Use miscellaneous rigging equipment, material handling power equipment, and be able to load and unload trucks.

Target Audience:

This course is mandatory for all Apprentices and available for Journeymen.

Length of Course:

This course is designed to be offered during a total of 40 hours – 20 hours of classroom instruction and 20 hours of hands-on lab or shop training.

Course Materials:

- **Rigging for Ironworkers** Reference Manual
- **Rigging for Ironworkers** Student Workbook
- **Rigging for Ironworkers** Instructor Guide
- **Rigging for Ironworkers** DVD
- **Assignment Sheets** (in the Student Workbook)
- **Job Sheets** (in the Student Workbook)
- **Tests** (in the Instructor Guide)

A Word about Safety

The importance of safety will be addressed and reinforced in all hands-on activities in the classroom, in the shop, and on the job site.

Course Assignments:

There will be assignments for each unit of instruction. Students will complete these assignments prior to and/or during course sessions as determined by the instructor. Skill practice will be completed as part of appropriate units. Most skill practice will be completed in the lab or shop area and/or outside in a work area.

Course Grading Criteria:

To successfully complete this course, the student must complete all of the assignment sheets, demonstrate the required skills in the lab or shop, and pass the knowledge tests.

Course Attendance:

All course sessions are mandatory and while missed time can be made up, missing a course session will affect your ability to successfully complete this course. Speak with the instructor to arrange make-up time if necessary.

Course Schedule:

NOTE: The following Course Schedule is set up for blocks or classes 3 hours in length. If your course sessions are more or less than 3 hours, you will need to adjust the number of sessions accordingly. This course schedule may change if this rigging course is combined with the cranes course.

Date	Topics/Activities
Session 1	Introductions Review of the course syllabus including the course objectives Discussion of classroom and outside assignments History of rigging Lecture and discussion
Session 2	Test – History of rigging Rigging with fiber rope Lecture and discussion Skills demonstration, apprentice practice and skill testing
Session 3	Rigging with fiber rope Skills demonstration, apprentice practice and skill testing
Session 4	Test - Rigging with fiber rope Reeving Lecture and discussion Skills demonstration, apprentice practice and skill testing
Session 5	Reeving Lecture and discussion Skills demonstration, apprentice practice and skill testing
Session 6	Test - Reeving Rigging with wire rope Lecture and discussion Skills demonstration, apprentice practice and skill testing
Session 7	Rigging with wire rope Lecture and discussion Skills demonstration, apprentice practice and skill testing

- Session 8 Test – Rigging with wire rope
Using rigging hardware
Lecture and discussion
Skills demonstration, apprentice practice and skill testing
- Session 9 Using rigging hardware
Skills demonstration, apprentice practice and skill testing
- Session 10 Test - Using rigging hardware
Slings
Skills demonstration, apprentice practice and skill testing
- Session 11 Test - Slings
Chain
Lecture and discussion
Skills demonstration, apprentice practice and skill testing
- Session 12 Test - Chains
Rigging tools and devices
Lecture and discussion
Skills demonstration, apprentice practice and skill testing
- Session 13 Test – Rigging tools and devices
Rigging procedures and precautions
Rigging with hydraulic gantry systems
Skills demonstration, apprentice practice and skill testing
- Session 14 Rigging procedures and precautions
Rigging with hydraulic gantry systems
Tests - Rigging procedures and precautions and Rigging with hydraulic gantry systems
Test
Course summary